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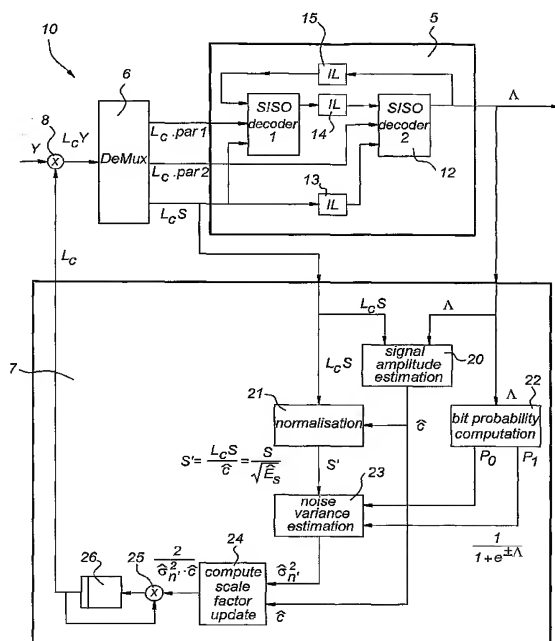
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(54) Title: TURBO DECODING WITH ITERATIVE ESTIMATION OF CHANNEL PARAMETERS

(57) **Abstract:** Method and decoding device for decoding a convolutionally coded input data signal y . The input data signal is multiplied with a scaling factor L_c (8) and then demultiplexed (6). The demultiplexed input data signal $L_c S$ is then turbo decoded (5) in order to obtain decoder output likelihood ratio data Λ . The scaling factor L_c is updated (7) for a next iteration in dependence on a combination of a posteriori likelihood data based on turbo decoded output data Λ and a priori likelihood data based on the demultiplexed signal $L_c S$.





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